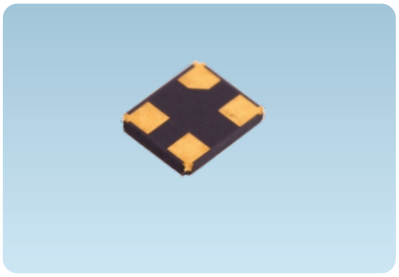
2.5 x 2.0 mm SMD Crystal

FEATURE

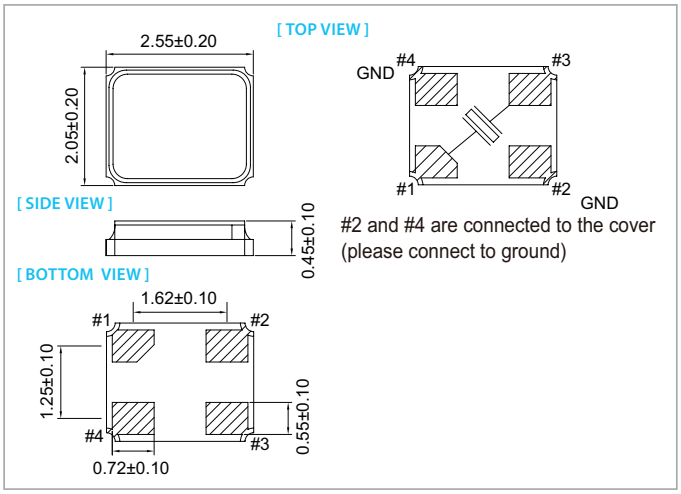
- Typical 2.5 x 2.0 x 0.45 mm ultra thin ceramic package.
- 8 mm width Tape & Reel package for automatic assembly.
- Tight tolerance 10 ppm available.



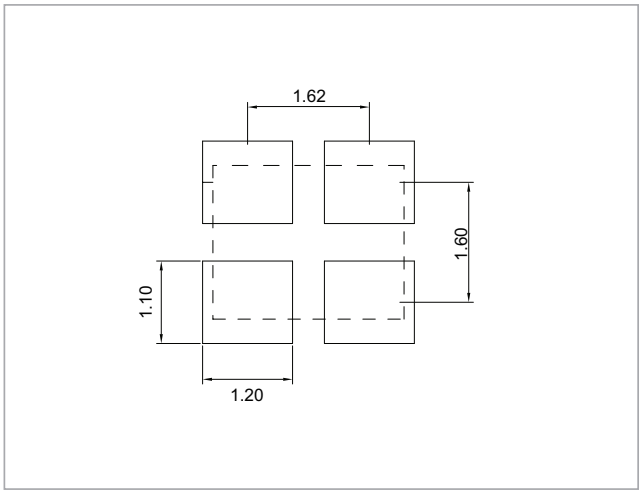
TYPICAL APPLICATION

- Bluetooth , Mobile phone, Wireless LAN.
- Office Automation
- Audio & Video

DIMENSION (mm)



SOLDER PAD LAYOUT (mm)



ELECTRICAL SPECIFICATION

Parameter	Min.	Typical	Max.	Unit
Storage Temp. Range	-40	-	125	˚C
Standard Frequency		16, 24, 26, 40		MHz
Level of Drive	-	10	200	μw
Shunt Capacitance (Co)	-	-	3.0	pF
Insulation Resistance	500 MΩ@ DC100V	-	-	
Aging		±1.0 to ±3.0		ppm / year

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

EQUIVALENT SERIES RESISTANCE (E. S. R.)

Frequency Range	MODE	E.S.R
12 MHz ≦ Fo < 20 MHz	A1	<150Ω
20 MHz ≦ Fo ≦ 30 MHz	A1	<80Ω
30 MHz < Fo ≦ 54 MHz	A1	<60Ω

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppm	±5	±10	±15
-10 ~ +60	△	○	○
-20 ~ +70	×	△	○
-40 ~ +85	×	×	△

* ○: Available △:Conditional X: Not available

FREQ. STABILITY vs. WIDE TEMP. RANGE

Temp.(°C) \ ppm	±15	±20	±30	±50
-40 ~ +105	△	○	○	○
-40 ~ +125	×	×	△	○

* ○: Available △:Conditional X: Not available

Model Numbering Guide – Crystal Units

Available options

①		②	③	④		⑤					
Type	package (mm)	Frequency range	Load Capacitance (pF)	Freq. Tol. @25°C (ppm)	Freq. Stability (ppm)	Temp. Range(°C)	Special Requirement	Osc illator Mo de	Appearance	Lead Free	Dash
1612	1.6x1.2	3.00~100.00MHZ	6 7 8 9 10 12 15 16 18 20 22 25 30 32	± 5 ± 10 ± 15 ± 20 ± 25 ± 30 ± 40 ± 50 ± 100 ± 150	± 5 ± 10 ± 15 ± 20 ± 25 ± 30 ± 40 ± 50 ± 100 ± 150	A:-20~+70 B:-40~+85 J :-40~+105	For Automotive Spurious DLD No Special Pullability Several	AT Funda mental AT 3rd Overto ne	Normal	RoHs Compliant	–
2016	2.0x1.6										
2520	2.5x2.0										
3225	3.2x2.5										
5032	5.0x3.2 (4Pads)										
6035	6.0x3.5										
3225	3.2x2.5										
5032	5.0x3.2 (2Pads)										
8045	8.0x4.5										
49S	11.1x4.68										
49MD	13.0x4.85										

example

① ② ③ ④ ⑤

① package ② Frequency range ③ Load Capacitance ④ Freq. Tol. @25°C X10-6,+25℃) ⑤ Temp. Range(°C)

2520 - 12.00 - 20 - 20 - 20 / A

① ② ③ ④ ⑤

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